2008 IAFF CONVETION Resolution No. 15

COMMITTEE ASSIGNMENT: Policy Re: Photoelectric Smoke Alarms

1	WHEREAS, over 3,000 citizens perish in
2	structural fires across the United States and Canada
3	every year; and
4	WHEREAS, in at least 30% of these fires,
5	it has been documented that the smoke alarms
6	operated and in 20% of these fires, the smoke alarms
7	were disabled; and
8	WHEREAS, there are two principle types
9	of smoke alarms that are intended to alert occupants
10	of building fires: ionization and photoelectric smoke
11	alarms. Ionization smoke alarms predominantly
12	detect the presence of extremely small particles of
13	smoke – often invisible – typical of flaming fires,
14	while photoelectric smoke alarms predominantly
15	detect larger smoke particles – always visible –
16	typical conditions found at smoldering fires; and
17	WHEREAS, research indicates that both
18	ionization and photoelectric smoke alarms are
19	intended to provide occupants time to escape.
20	However, ionization smoke alarms may not operate
21	in time to alert occupants early enough to escape
22	from smoldering fires; and
23	WHEREAS, current research indicates that
24	ionization smoke alarms detect flaming fires
25	marginally earlier than photoelectric smoke.
26	However, ionization smoke alarms are far more
27	prone to nuisance alarms increasing the probability
28	that they will be disabled by building occupants; and
29	WHEREAS, photoelectric smoke alarms
30	detect smoldering fires and fires starting in areas
31	remote from smoke alarms significantly earlier than
32	ionization smoke alarms; and
33	WHEREAS, dual alarms, also called
34	combination alarms, that contain both technologies
35	are available but the benefit over photoelectric in the
36	response to fires is marginal. They are more costly,
37	and they will experience the same nuisance problem
38	as ionization smoke alarms; and
39	WHEREAS, as many fires in residential
40	occupancies begin as smoldering fires, particularly

when occupants are sleeping, photoelectric smoke alarms provide more effective all-around detection and alarm than ionization alarms; and

WHEREAS, failure to detect a fire and provide an early alarm places building occupants at risk from an ever-escalating fire; and

WHEREAS, such escalating fires place the lives of firefighters responding to an increasing risk from such an escalating fire; and

WHEREAS, the increase in the use of photoelectric technology has the potential to save hundreds of lives each year and should be promoted as the technology of choice by members of the IAFF in their homes; and

WHEREAS, IAFF members should advocate for their mandatory requirement for placement and use of photoelectric alarms in fire and building codes, in a manner similar to recent legislation in Vermont and Massachusetts; and

WHEREAS, the Professional Fire Fighters of Vermont, with the assistance and technical expert testimony from IAFF Local 718 member and Boston Fire Department successfully lobbied for such legislation that on May 29, 2008, signed into law as the first in the nation legislation mandating the installation of photoelectric smoke detectors in all new construction and at the time of sale of property in Vermont; therefore be it

RESOLVED, That the IAFF propose and support the mandate of only photoelectric smoke detectors in United States and Canadian federal law, in all state, provincial and local legislation, and in all standard development organizations' building, fire and life safety codes and standards; and be it further

RESOLVED, That this official IAFF position be presented to the United States Fire Administration, the United States National Institute of Standards and Technology, the Congressional Fire Services Institute, the National Fire Protection Association, the International Code Council, the International Association of Fire Chiefs, the National Association of State Fire Marshals, the Council of Canadian Fire Marshals and Fire Commissioners Health Canada, the Standards Council of Canada, the United States Consumer Product Safety

87 Commission, and the Consumers Association of

88 Canada.

Submitted by: Professional Fire Fighters of Vermont

Local 718, Boston, MA

Cost Estimate: None

COMMITTEE RECOMMENDATION: Adopt

CONVENTION ACTION: Adopt